



**Project :** Airbus – A350 Wing Assembly Building, Broughton

**Client:** Morgan Sindall

**Total Project Value:** £100 Million

**Subcontract Value:** £28.3 Million

**Commenced:** December 2007

**Duration:** 147 Weeks



**Scope:** Large enabling works package consisting of installation of 1.5m diameter pipes over 400m length in total, to form attenuation which was then pumped over a rising main to a bespoke lagoon constructed out of vinyl sheet piles. Full groundworks package then to build new wing manufacturing facility.



Murraywood received various awards for Innovation, Integration and Collaborative Working, Safety, and Environment during this project. Overall the project received a 'Very Good' award from CEEQUAL.



- Installation of 1.5m diameter plastic pipes with 2.5m diameter manholes every 70m acting as attenuation system.
- Installation of large pumping chamber with 450mm cast iron rising main to pump storm water from attenuation system.
- Installation of 6m length vinyl interlocking sheet piles, protruding 2.5m out of the ground to form specialist lagoon storage.
- 80,000m<sup>2</sup> piling mat installation and maintenance.



**Case Study - Airbus, A350 Wing  
Assembly Building, Broughton**



- Pile cropping and construction of pile caps and ground beams.
- Installation of foul and surface water drainage system with associated interceptor tanks.
- Precision tolerance internal machine bases.
- Precision tolerance reinforced concrete floor slabs.
- External services including sprinkler main, fire hydrant main, HV cables, communications and data ducting etc.
- Within the building in excess of 4,000T of reinforcement was placed, over 33,000m<sup>3</sup> of concrete cast, with the largest single pour of concrete being 1,850m<sup>3</sup> over a 14 hour period!

